

### AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

#### Listing of claims:

1. (Withdrawn) A drug for treating a heart disease characterized by cardiac hypertrophy or tachycardia, comprising an expression vector containing a CD9 gene as the active ingredient and a pharmaceutically acceptable auxiliary or carrier;  
wherein the expression vector is a viral vector or a non-viral vector; and  
wherein the viral vector is an adeno-associated virus, a retrovirus, a herpesvirus, a herpes simplex virus, a lentivirus, a Sendai virus, a poxvirus, a poliovirus, a symbis virus, or a vaccinia virus.
2. (Cancelled)
3. (Withdrawn) The drug according to Claim 1, wherein the heart disease is an ischemic heart disease.
4. (Withdrawn) The drug according to Claim 3, wherein the ischemic heart disease is myocardial infarction.
- 5-10. (Cancelled)
11. (Withdrawn) The drug according to Claim 1, wherein cardiac hypertrophy or tachycardia is caused by at least one of heparin binding epidermal growth factor (HB-EGF), hepatocyte growth factor (HGF), or angiotensin 2.
- 12-13. (Cancelled)

14. (Currently Amended) A method for ~~treating a heart disease~~ suppressing cardiac hypertrophy or cardiac tachycardia in a subject having a heart disease, comprising administering directly to ~~or via a coronary artery supplying~~ a cardiac muscle in the heart of ~~[[a]] the subject in need thereof an effective amount of~~ an expression vector containing a sequence encoding a CD9 protein;

wherein the heart disease is characterized by myocardial infarction, hypertrophy, arrhythmia, or tachycardia; and

wherein ~~the heart disease is treated by suppressing~~ cardiac hypertrophy or cardiac tachycardia is suppressed in the subject.

15. (Cancelled)

16. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 14, wherein the heart disease is an ischemic heart disease.

17. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 16, wherein the ischemic heart disease is myocardial infarction.

18-23. (Cancelled)

24. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 14, wherein cardiac hypertrophy or tachycardia is caused by at least one of heparin binding epidermal growth factor (HB-EGF), hepatocyte growth factor (HGF) or angiotensin 2.

25-28. (Cancelled)

29. (Withdrawn) The drug according to Claim 1, wherein the expression vector is a viral vector.

30. (Withdrawn) The drug according to Claim 1, wherein the expression vector is a non-viral vector.

31-34. (Cancelled)

35. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 14, wherein the expression vector is a viral vector or a non-viral vector.

36. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 35, wherein the viral vector is an adenovirus, an adeno-associated virus, a retrovirus, a herpesvirus, a herpes simplex virus, a lentivirus, a Sendai virus, a poxvirus, a poliovirus, a symbis virus, or a vaccinia virus.

37. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 36, wherein the expression vector is adenovirus.

38. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 37, wherein the heart disease is an ischemic heart disease.

39. (Currently Amended) The method ~~for treating a heart disease~~ according to Claim 38, wherein the ischemic heart disease is myocardial infarction.

40. (Withdrawn) The method ~~for treating a heart disease~~ according to Claim 35, wherein the non-viral vector is a cationic liposome, a membrane-fusing liposome, or a cationic polymer.

41. (Withdrawn) The method ~~for treating a heart disease~~ according to Claim 40, wherein the heart disease is an ischemic heart disease.

Applicants : Kenichiro Kosai et al  
Serial No. : 10/584,109  
Filed : June 22, 2006  
Page : 5 of 8

Attorney Docket No.: 55801-003US1  
Client Ref. No.: PCT04TL2

42. (Withdrawn) The method for ~~treating a heart disease~~ according to Claim 41,  
wherein the ischemic heart disease is myocardial infarction.